

**JP04214709****ANSWER 1 OF 2 CAPLUS:**

ACCESSION NUMBER: 1993:60295 CAPLUS  
DOCUMENT NUMBER: 118:60295  
TITLE: Radiation-resistant ethylene-propylene copolymers and their compositions  
INVENTOR(S): Asanuma, Tadashi  
PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04214709	A2	19920805	JP 1990-402119	19901214
JP 3092949	B2	20000925		

PRIORITY APPLN. INFO.: JP 1990-402119 19901214

AB The title copolymers, when based on a polymer chain of 6 monomers, have the continuous C3H6 racemic diad and triad ratio (R)  $\geq 0.5$ . The copolymers are useful for radiation-sterilizable food and drug packaging materials (no data). Thus, the isopropyl(cyclopentadienyl-1-fluorenyl)zirconium dichloride/Me aluminoxane-catalyzed polymn. of C3H6 and C2H4 prepd. a copolymer having R 0.9, and intrinsic viscosity (in Tetralin at 135°) 1.30, and 1,2,4-trichlorobenzene-solvent derived polydispersity 2.2; and showing good  $\gamma$ -ray radiation resistance, vs. poor for a com. isotactic copolymer having R 0.05 and polydispersity 5.8.

**ANSWER 2 OF 2 WPIX:**

ACCESSION NUMBER: 1992-311092 [38] WPIX  
DOC. NO. CPI: C1992-138144  
TITLE: Radioactive ray resistant ethylene-propylene copolymer - produced in presence of transition metal cpds. and aluminoxane(s) for good physical properties.  
DERWENT CLASS: A17  
PATENT ASSIGNEE(S): (MITK) MITSUI TOATSU CHEM INC  
COUNTRY COUNT: 1  
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
JP 04214709	A	19920805	(199238)*		4
JP 3092949	B2	20000925	(200051)		3

**APPLICATION DETAILS:**

PATENT NO	KIND	APPLICATION	DATE
JP 04214709	A	JP 1990-402119	19901214
JP 3092949	B2	JP 1990-402119	19901214

STN Columbus

FILING DETAILS:

PATENT NO	KIND	PATENT NO
JP 3092949	B2 Previous Publ.	JP 04214709

PRIORITY APPLN. INFO: JP 1990-402119 19901214

AN 1992-311092 [38] WPIX

AB JP 04214709 A UPAB: 19931006

The propylene-ethylene copolymer has two or three propylene-continuous racemic ratio in 6 monomer units of a polymer chain of at least 0.5.

Pref. copolymer has a limiting viscosity determined at 135 deg.C in tetralin soln. of at least 0.10 and contains 0.01-50 mole % of ethylene.

The copolymer is produced in the presence of transition metal cpds. and aluminoxanes at -100 to 100 deg.C under ordinary pressure to 50 kg/cm<sup>2</sup>.

Pref. the compsns. contain P or amine type antioxidants. The copolymer has a ratio of wt. average mol. wt/number average mol.wt. (Mw/Mn) being 1.5-5n (1.5-4). The compsns. may contain isotactic polypropylene (IPP), IPP-other olefin copolymers, ethylene-at least 3 C alpha-olefin copolymers.

ADVANTAGE - The copolymer and its compsns. (claimed) have good radioactive ray-resistance and physical properties in good balance.  
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